

Temperature control is made without the risk of contaminating object-to-be-processed and with high accuracy. Temperatures are metered out of contact with the objects-to-be-processed, and based on a metered result, 5 estimated temperatures of the objects-to-be-processed are computed. Furthermore, estimation errors of the estimated temperatures are computed to correct the estimated temperatures. Based on a temperature recipe stating 10 relationships between set temperatures and times and the corrected estimated temperatures, a heater is controlled.

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